

Filename: PMP2552 REV_C_bom.xls

Date: 10/29/2008

PMP2552 REV_C BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
2	C1	0.47uF	Capacitor, Film, 0.47uF, 275VAC, ±10%	0.236 X 0.591 inch	ECQU2A474KL	Panasonic
	C2	0.47uF	Capacitor, Film, 0.47uF, 275VAC, ±10%	0.236 X 0.591 inch	ECQU2A474KL	Panasonic
1	C3	1 uF	Capacitor, Polyester, 1 µF, 305Vac, 20%	1220 x 0.768	B32924C3105M	EPCOS
1	C4	DNI	Capacitor, Ceramic Disk, vvV, [temp], [tol]	0.720 inch	STD	Std
4	C5	220 uF	Capacitor, Aluminum Electrolytic, 450V, 85C, 20%	1.18 dia * 1.575 inch	ECO-S2WB221DA	Panasonic
	C6	220 uF	Capacitor, Aluminum Electrolytic, 450V, 85C, 20%	1.18 dia * 1.575 inch	ECO-S2WB221DA	Panasonic
	C7	220 uF	Capacitor, Aluminum Electrolytic, 450V, 85C, 20%	1.18 dia * 1.575 inch	ECO-S2WB221DA	Panasonic
	C8	220 uF	Capacitor, Aluminum Electrolytic, 450V, 85C, 20%	1.18 dia * 1.575 inch	ECO-S2WB221DA	Panasonic
4	C9	4700pF	Capacitor, Ceramic Disc, 4700pF, Y5V, ±20%	0.591 x 0.276 inch	ECKATS472MF	Panasonic
	C10	4700pF	Capacitor, Ceramic Disc, 4700pF, Y5V, ±20%	0.591 x 0.276 inch	ECKATS472MF	Panasonic
	C11	4700pF	Capacitor, Ceramic Disc, 4700pF, Y5V, ±20%	0.591 x 0.276 inch	ECKATS472MF	Panasonic
	C12	4700pF	Capacitor, Ceramic Disc, 4700pF, Y5V, ±20%	0.591 x 0.276 inch	ECKATS472MF	Panasonic
1	C15	1000p	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C16	1.5u	Capacitor, Ceramic, 10V, X5R, 10%	0805	C0805C155K8PAC7800	Kemet
1	C17	0.33u	Capacitor, Ceramic, 16V, X7R, 10%	0805	STD	STD
2	C18	820p	Capacitor, Ceramic, 16V, X7R, 10%	0805	GRM21BR71C824KC01L	Murata
2	C19	1u	Capacitor, Ceramic, 25V, X7R, 10%	0805	C2012X7R1E105K	TDK
1	C20	0.33u	Capacitor, Ceramic, 16V, X7R, 10%	0603	STD	STD
	C21	820p	Capacitor, Ceramic, 16V, X7R, 10%	0805	GRM21BR71C824KC01L	Murata
1	C22	3.3u	Capacitor, Ceramic, 6.3V, [temp], 10%	0805	STD	STD
1	C23	4.7uF	Capacitor, Aluminum Electrolytic, 450V, ±20%, -40 to +85 °C	0.394 Dia.	ECA2WM4R7	Panasonic
1	C24	47nF	Capacitor, Ceramic, 630V, X7R, 20%	1210	C3225X7R2J473M	TDK
1	C25	0.1uF	Capacitor, Ceramic, 250V, X7R, 10%	1206	C3216X7R2E104K	TDK
1	C26	150 pF	Capacitor, Ceramic, 50V, COG, 5%	0402	C1005COG1H151J	TDK
1	C27	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK
	C28	1u	Capacitor, Ceramic, 25V, X7R, 10%	0805	C2012X7R1E105K	TDK
1	C29	0.68u	Capacitor, Ceramic, 16V, X7R, 10%	0603	STD	STD
1	D1	1N5406-T	DIODE, General Purpose, 600V, 3.0A	DO-201AD	1N5406-T	Fairchild
1	D2	IDT05S60C	Diode, SiC, 5-A, 600-V	TO220AC	IDT05S60C	INFINEON
1	D3	GSIB1580	Diode, Bridge Rectifier, 15A, 800V	1.190 x 0.190 inch	GSIB1580	VISHAY
1	D4	DL4006-13	Diode, Rectifier, 1A, 800V	MELF	DL4006-13	MCC
3	D5	MUR180E	Diode, Ultrafast, 800V, 1A	DO-41	MUR180EG	ONsemi
	D6	MUR180E	Diode, Ultrafast, 800V, 1A	DO-41	MUR180EG	ONsemi
	D7	MUR180E	Diode, Ultrafast, 800V, 1A	DO-41	MUR180EG	ONsemi
1	D8	1N4148W	Diode, Signal, 300-mA, 75-V, 350-mW	SOD-123	1N4148W	Diodes
1	F1	10A	Fuseholder, 1/4 fuses	Littlefuse	FC-250-A-MT	board mount (Qty: 2)"
1	HS1	HS188	Heatsink, Vertical-mount With Solderable Pins	1.000 x 1.650 inch	529802B02500G	Aavid
2	HS2	HS191	Heatsink, TO-220, Vertical-mount with Solderable pins	0.5 x 1.38 inch	531102b02500	Aavid
	HS3	HS191	Heatsink, TO-220, Vertical-mount with Solderable pins	0.5 x 1.38 inch	531102b02500	Aavid
1	HS4	SK72-37,5	Heatsink, Custom	3.819 x 0.984 inch	SK72-37,5	Fischer Elektronik

2	J1	MKDS3/2	Header, Side Entry 2-pin, 5mm spacing,	0.441 x 0.200 inch	MKDS3/2	Phoenix Contact
1	J2	703W-00/54	Connector, AC Board mount, 9mm	1.97 x 0.79	703W-00/54	Qualtek Electronics
	J3	MKDS3/2	Header, Side Entry 2-pin, 5mm spacing,	0.441 x 0.200 inch	MKDS3/2	Phoenix Contact
1	J4	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	J5	Earth Pad				STD
1	L1	500uH	Inductor, PFC, 500uH, 11A, 100milliohm	2.250 Dia. inch	G074391LF	GCI
2	L2	1 mH	Inductor, Dual Winding,	1.250 x 0.628 inch	GVTM0-102LF	Coiltronics
	L3	1 mH	Inductor, Dual Winding,	1.250 x 0.628 inch	GVTM0-102LF	Coiltronics
2	L4	1mH	Inductor, SMT, 0.31A, 3890milliohm	0.300 sq"	DR74-102-R	Coiltronics
	L5	1mH	Inductor, SMT, 0.31A, 3890milliohm	0.300 sq"	DR74-102-R	Coiltronics
1	L6	150uH	Inductor, SMT, 0.81A, 590milliohm	0.300 sq"	DR74-151-R	Coiltronics
2	Q1	SPP11N60C3	MOSFET, Nch, 600V, 11A, 0.38 Ohms	TO-220	SPP11N60C3	Infineon
	Q2	SPP11N60C3	MOSFET, Nch, 600V, 11A, 0.38 Ohms	TO-220	SPP11N60C3	Infineon
1	Q3	FQD1N80TF	MOSFET, N-ch, 800V, 1A, 20 ohm	DPAK	FQD1N80TF	FAIRCHILD
2	R1	100K	Resistor, Chip, 1/2W, 5%	1812	ERJ12YJ104U	TDK
	R2	100K	Resistor, Chip, 1/2W, 5%	1812	ERJ12YJ104U	TDK
1	R3	DNI	Resistor, Metal Oxide, 220Ohms, 1W, 5%	0.130 * 0.600 inch	ERG-1SJ221	Panasonic
3	R4	4.7M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R5	4.7M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
4	R6	0.15	Resistor, Metal Oxide 2W Through hole, 2±%	0.150 x 0.700 inch	ERX2SZJR15	PANASONIC
2	R7	10k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R8	10k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R9	4.7M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R10	0.15	Resistor, Metal Oxide 2W Through hole, 2±%	0.150 x 0.700 inch	ERX2SZJR15	PANASONIC
	R11	0.15	Resistor, Metal Oxide 2W Through hole, 2±%	0.150 x 0.700 inch	ERX2SZJR15	PANASONIC
1	R12	4.7	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R13	4.7	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R14	220	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R15	2.2M	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R16	340k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
2	R17	332k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
	R18	332k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R19	49.9	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R20	27k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R21	100k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R22	13k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R23	330k	Resistor, Chip, 1/2W, 2%	1812	Std	Std
1	R24	330k	Resistor, Chip, 1/2W, 2%	1812	Std	Std
1	R25	150k	Resistor, Chip, 150k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R26	1.8 M	Resistor, Chip, 1.8M-Ohms, 1/16-W, 1%	0603	Std	Std
1	R27	1k	Resistor, Chip, 1k-Ohms, 1/16-W, 1%	0603	Std	Std
	R28	0.15	Resistor, Metal Oxide 2W Through hole, 2±%	0.150 x 0.700 inch	ERX2SZJR15	PANASONIC
1	RT1	5	Thermistor, NTC, 5 ohms, 9.5-A	0.590 x 0.276	B57464S0509M000	Epcos
1	RT2	SIOV-S20K275	Varistor, Disk, 350V, 1W, TA @ 85C°	D Size	SIOV-S20K275	Epcos
16	TP1	STD	Test Point, 0.032 Hole		STD	STD

	TP2	STD	Test Point, 0.032 Hole		STD	STD
	TP3	STD	Test Point, 0.032 Hole		STD	STD
	TP4	STD	Test Point, 0.032 Hole		STD	STD
	TP5	STD	Test Point, 0.032 Hole		STD	STD
	TP6	STD	Test Point, 0.032 Hole		STD	STD
	TP7	STD	Test Point, 0.032 Hole		STD	STD
	TP8	STD	Test Point, 0.032 Hole		STD	STD
	TP9	STD	Test Point, 0.032 Hole		STD	STD
	TP10	STD	Test Point, 0.032 Hole		STD	STD
	TP11	STD	Test Point, 0.032 Hole		STD	STD
	TP12	STD	Test Point, 0.032 Hole		STD	STD
	TP13	STD	Test Point, 0.032 Hole		STD	STD
	TP14	STD	Test Point, 0.032 Hole		STD	STD
	TP15	STD	Test Point, 0.032 Hole		STD	STD
	TP16	STD	Test Point, 0.032 Hole		STD	STD
1	U1	UCC28019D	IC, Continuous Current Mode PFC Controller	SO8	UCC28019D	TI
1	U2	UCC3889	IC, Off-line power supply controller	SO8	UCC3889D	Texas Instruments
1		PCB	PMP2552 Rev_A			

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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